

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/075226 A1

(51) International Patent Classification⁷: **B60J 5/04**,
B62D 65/06

(21) International Application Number:
PCT/CA2005/000152

(22) International Filing Date: 7 February 2005 (07.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/774,195 6 February 2004 (06.02.2004) US

(71) Applicant (for all designated States except US): **INTIER
AUTOMOTIVE CLOSURES INC.** [CA/CA]; 521 New-
park Boulevard, Newmarket, Ontario L3Y 4X7 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LIN, Jih, Cheng**
[US/US]; 39085 Lancaster Drive, Farmington Hills, MI
48331 (US). **BUENING, Dennis, John** [US/US]; 46151
Bloomcrest Drive, Northville, MI 48167 (US). **BOKUN,**
Radoslav [CA/CA]; 2651 Teedie Crescent, Windsor, On-
tario N8r 2k5 (CA). **FRITSCH, Manfred** [DE/US]; 2124
Holly Terrace, #7, Dolton, GA 30720 (US). **KRYSIAK,**
David [US/US]; 10 Fairwood, Pleasant Ridge, MI 48069

(US). **WENGLINSKI, Daniel, E.** [US/US]; 32722 Ohio,
Livonia MI 48150 (US). **KIREJCZYK, Juliusz** [CA/CA];
1045 Far North Circle, Newmarket, Ontario L3X 1N4
(CA). **REGNIER, Luc, R.** [CA/CA]; 1569 Mount Pleas-
ant Road, Toronto, Ontario M4N 2V4 (CA). **LEGAULT,**
David [CA/CA]; 4654 Alpenrose Avenue, Windsor,
Ontario N9G 2S5 (CA). **BROADHEAD, Douglas, G.**
[US/US]; 4 Penrose Court, Brampton, Ontario L6Z 4P1
(CA).

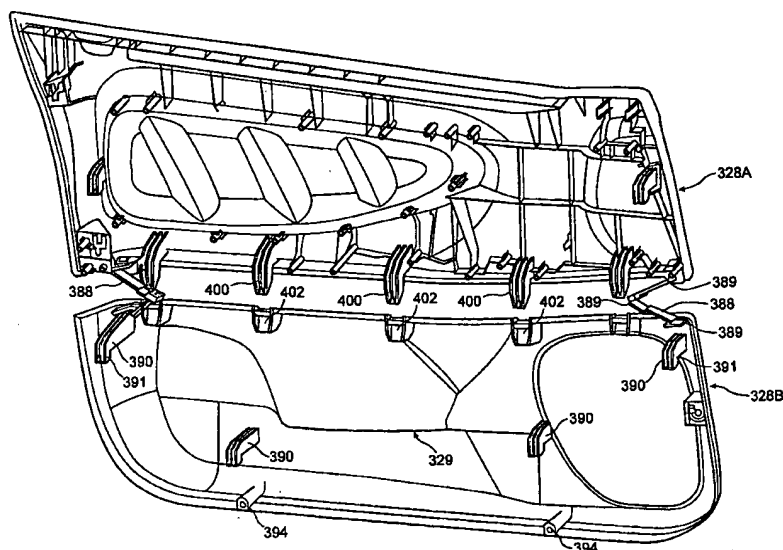
(74) Agents: **PORAT, Alex et al.**; Magna International INC.,
337 Magna Drive, Aurora, Ontario L4G 7K1 (CA).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: TRIM DOOR HARDWARE CARRIER AND METHODS OF ASSEMBLING VEHICLE DOOR



(57) Abstract: A door module assembly for a motor vehicle door has a plate-like carrier holding a plurality of door hardware components in a pre-configured orientation, including one or more window regulator rails. The carrier seals the motor vehicle door and includes a flap that provides at least partial access to the window regulator rails. A first trim panel is pre-fixed to the carrier. A second trim panel articulates with respect to the first trim panel between an initial position generally parallel to the first trim panel and an installed position generally in-line with the first trim panel. With the carrier storing substantially all of the hardware required for the door and the trim panels covering substantially the entire surface area of the door, handling and assembly operations are minimized.

WO 2005/075226 A1



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*